

PROCEDURE FOR VERIFYING MEASURED SIEVES

1. PURPOSE:

- 1.1. This method provides instructions for checking the physical condition of laboratory test sieves ranging in size from 4-inch down through No. 4.

2. INSPECTION EQUIPMENT REQUIRED:

- 2.1. Calipers readable to 0.01 mm.

3. TOLERANCE:

- 3.1. Sieves shall meet the physical requirements specified in AASHTO M92.

4. PROCEDURE:

- 4.1. Select and mark 4 individual sieve openings along a 45° line. Measure and record both dimensions of the opening to the nearest 0.01 mm. Determine the average dimension of all 8 measures.

4.1.1. If the sieve is too large to have 4 holes in a 45° line, then measure at random 4 holes in the sieve.

4.1.2. If the sieve does not have 4 holes, measure all the holes and average the dimensions.

- 4.2. Verify that the average is within specification listed in AASHTO M92 Table 1 column 4.

- 4.3. Inspect the general condition of the sieve. Check the frame and solder joints for cracks or holes.

- 4.4. Make sure the sieve has an appropriate label.

- 4.5. Check for tightness of the wires on each sieve.

- 4.6. Sieves that do not comply with specifications should be clearly marked and/or discarded.

5. REPORT: See attached Equipment Verification Record.

APPROVED _____
Director
DIVISION OF MATERIALS

DATE 06/01/06

**Kentucky Transportation Cabinet, Division of Materials
Aggregate Section**

EQUIPMENT VERIFICATION RECORD

Inspector: _____

Date: _____

Equipment Name: Measured Sieves

Previous Verification Date: _____

Next Due Date: _____

Verification Frequency: 6
Months

Verification Procedure Used: KM64-628

Caliper Model No. _____

Caliber Serial No. _____

Indicate Sieve Size Being Measured: (8 " - 12" - 15" x 24")

												SIEVE
Sieve Size	1-H	1-V	2-H	2-V	3-H	3-V	4-H	4-V	TOTAL	AVG	RESULT	CONDITION
100mm												
90mm												
75mm												
63mm												
50mm												
37.5mm												
25mm												
19mm												
12.5mm												
9.5mm												
6.3mm												
4.75mm												

100mm	=	4 in.	25mm	=	1 in.
90mm	=	3.5 in.	19mm	=	3/4 in.
75mm	=	3 in.	12.5mm	=	1/2 in.
63mm	=	2.5 in.	9.5mm	=	3/8 in.
50mm	=	2 in.	6.3mm	=	1/4 in.
37.5mm	=	1.5 in.	4.75mm	=	#4

Note: For larger size sieve tolerances, see table 1 of AASHTO 92.

Compare average to these tolerances

Sieve Size		Tolerance	Sieve Size		Tolerance
2"	50mm	+/- 1.5mm	1/2"	12.5mm	+/- 0.39mm
1.5"	37.5mm	+/- 1.1mm	3/8"	9.5mm	+/- 0.3mm
3/4"	19mm	+/- 0.6mm	#4	4.75mm	+/- 0.15mm